

Kennedy NASA Policy Directive

Effective Date: March 23, 2020

Expiration Date: March 23, 2025

Responsible Office: Engineering

NASA KSC Software Policy

**National Aeronautics and
Space Administration**

John F. Kennedy Space Center

KDP-KSC-T-2121, Rev. Basic

Change Log

Date	Revision	Description
4/27/15	B	Policy content revalidated as written. Format and style revised to meet NPR 1400.1, NASA Directives and Charters Procedural Requirements.
3/23/20	C	Policy content revalidated as written. Removed “and Technology Directorate” from “Engineering and Technology Directorate”. Format and style revised to meet NPR 1400.1, NASA Directives and Charters Procedural Requirements

1. POLICY

This Kennedy NASA Policy Directive (KNPD) describes the Center software engineering policy and assigns responsibilities for the acquisition, development, and maintenance of software engineering projects at the John F. Kennedy Space Center (KSC).

- a. It is KSC policy to acquire and develop software that is of high quality and managed according to standard models, methods, processes, and procedures. Software engineering is the application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software.
- b. It is KSC policy to incorporate the software engineering requirements specified in [NASA Procedural Requirements \(NPR\) 7150.2, NASA Software Engineering Requirements](#), in all programs, projects, and prototypes acquired, developed, and maintained at KSC.
- c. It is KSC policy to incorporate the software assurance and software safety requirements specified in [NPR 7150.2, NASA Software Engineering Requirements](#), and [Kennedy NPR \(KNPR\) 8750.1, Software Assurance Procedural Requirements](#).

2. APPLICABILITY

- a. This directive applies to all KSC organizational elements and to KSC contractors to the extent specified in their respective contracts. Existing contractual agreements shall be reviewed for updates to meet the intent of this policy.
- b. In this directive, all mandatory actions (i.e., requirements) are denoted by statements containing the term "shall." The terms "may" or "can" denote discretionary privilege or permission, "should" denotes a good practice and is recommended, but not required, "will" denotes expected outcome, and "are/is" denotes descriptive material.
- c. In this directive, all document citations are assumed to be the latest version unless otherwise noted.

3. AUTHORITY

- a. [NPD 7120.4, NASA Engineering and Program/Project Management Policy](#)
- b. [NPR 7150.2, NASA Software Engineering Requirements](#)

4. APPLICABLE DOCUMENTS AND FORMS

- a. [KNPR 8750.1, Software Assurance Procedural Requirements](#)

5. RESPONSIBILITY

- a. Center Director is responsible for:
 - (1) Ensuring KSC compliance with [NPR 7150.2, Software Engineering Requirements](#).
 - (2) Signing the KSC plan for compliance with [NPR 7150.2, Software Engineering Requirements](#).

b. KSC Chief Engineer is responsible for:

- (1) Ensuring interpretation, development, and proper integration of the KSC software engineering policy.
- (2) Assessing software engineering implementation by KSC organizations.
- (3) Chartering the KSC Engineering Process Group (EPG).
- (4) Signing the KSC plan for compliance with [NPR 7150.2, Software Engineering Requirements](#).

c. Engineering Technical Authority for [NPR 7150.2, Software Engineering Requirements](#), is responsible for:

- (1) Ensuring KSC compliance with [NPR 7150.2, Software Engineering Requirements](#).
- (2) Ensuring development and proper integration of the KSC software engineering policy.
- (3) Performing oversight of KSC EPG.

d. KSC EPG is responsible for:

- (1) Serving as the primary NASA Headquarters, Office of the Chief Engineer, interface with regard to Agency policy interpretation, flow down of software engineering requirements and standards, and KSC input to the NASA software inventory.
- (2) Developing and maintaining the KNPR for software engineering requirements.
- (3) Developing and maintaining a Center-wide set of process templates that document KSC compliance with [NPR 7150.2, Software Engineering Requirements](#), for use by all programs and organizations across KSC.
- (4) Reviewing and providing recommendations concerning waiver requests for [NPR 7150.2, Software Engineering Requirements](#).
- (5) Developing and maintaining the KSC plan for compliance with [NPR 7150.2, Software Engineering Requirements](#).

6. DELEGATION OF AUTHORITY

None

7. MEASUREMENT/VERIFICATION

None

8. CANCELLATION

This document cancels KNPD 2820.2, Rev. B, NASA KSC Software Policy.

Original signed by _____
Robert D. Cabana
KSC Director

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